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TRW NOTE NO. 74-FMT-940

JSC/TRW TASK G-06

SPACE SHUTTLE CONFIGURATION ACCOUNTING DETAILED REQUIREMENTS AND FUNCTIONAL DESIGN SPECIFICATION

8 February 1974

Prepared for

INSTITUTIONAL DATA SYSTEMS DIVISION
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHNSON SPACE CENTER
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NAS 9-13140

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SPACE SHUTTLE CONFIGURATION ACCOUNTING FUNCTIONAL DESIGN SPECIFICATION

8 February 1974

Prepared by

Systems Information Section
Management Engineering Department

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1. INTRODUCTION

The Space Shuttle Configuration Accounting Functional Design Specification provides an analysis of the requirements for an on-line automated system. The system must be capable of tracking the status of requirements and engineering changes and provide accurate and timely records. Although this system and the requirements described relate specifically to the Space Shuttle Program Configuration Accounting Levels II and III, the design of the system should be such that it can be applied to other projects and programs with a minimum of modification.

The functional design specification also provides the definition, description, and character length of the required data elements and the interrelationship of data elements to adequately track, display, and report the status of active configuration changes.

As changes to the Space Shuttle Program Levels II and III configuration are proposed, evaluated, and dispositioned, it is the function of the Configuration Management Office, WC2, to maintain records regarding changes to the baseline and to track and report the status of those changes. The Configuration Accounting System (CAS) will consist of a combination of computers, computer terminals, software, and procedures, all of which are designed to store, retrieve, display, and process information required to track proposed and approved engineering changes to maintain baseline documentation of the Space Shuttle Program Levels II and III. Closed-out changes will be relegated to history tapes and maintained in the JSC Library for the duration of the Shuttle Program plus.

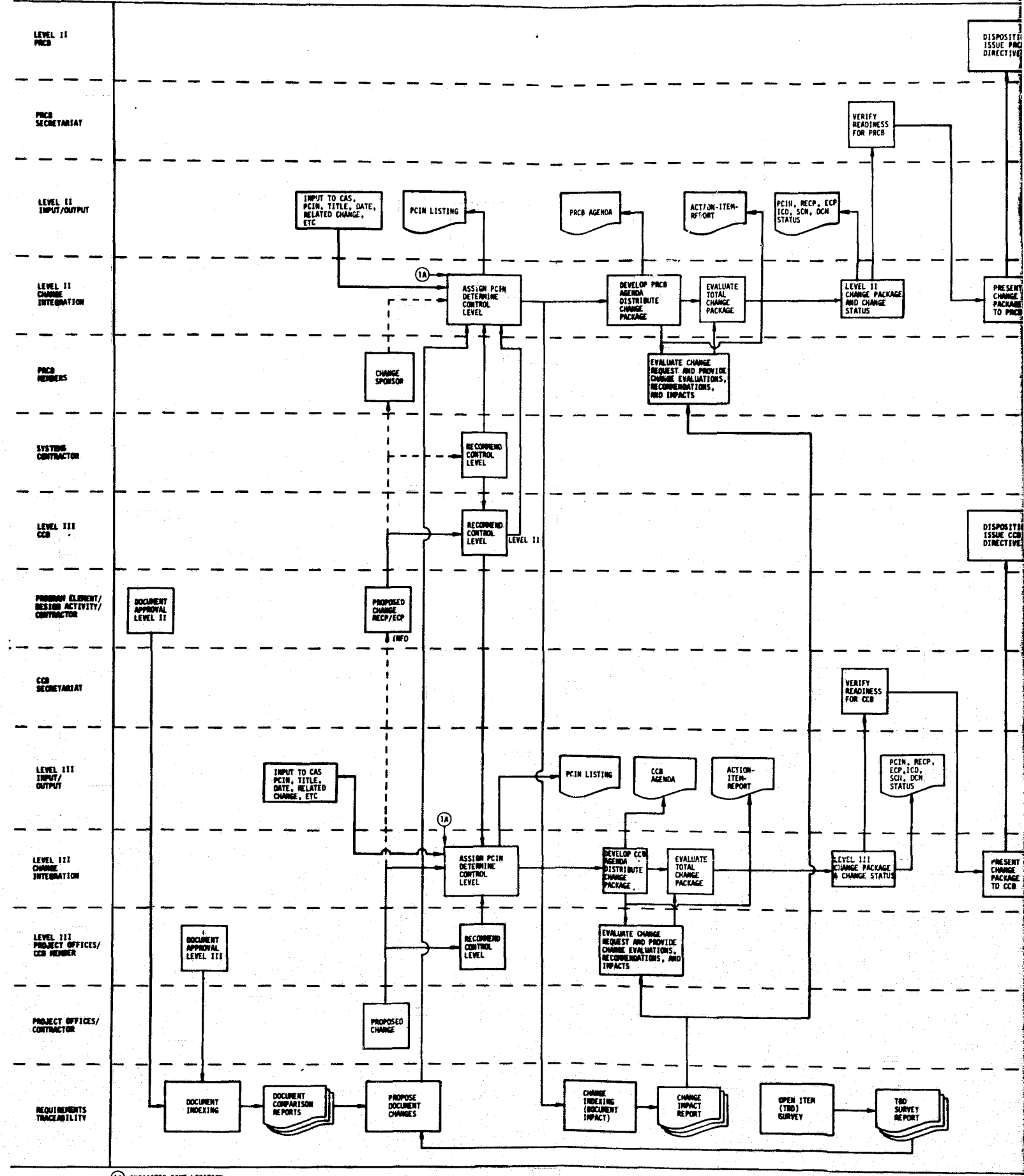
2. REQUIREMENTS

The requirements presented herein have been discussed in detail with the office of primary responsibility for the Space Shuttle Program Levels II and III configuration accounting application. Other center requirements have been included to the extent possible with some direct interface through configuration management working group (CMWG) meetings and telephone conversations. It is expected that small changes in requirements will occur throughout the program and the design of the system application must be flexible enough to accommodate these changes.

2.1 CAS User Requirements. The user requirements provide the basic platform for a generalized application. The design of the generalized application must be such that user interface complexity is minimized and user responsiveness is maximized.

2.1.1 CAS User Interface Requirements. The CAS user interface requirement is concerned primarily with the day-to-day man/machine interaction for inputting data and answering data queries. Discipline of change paper progression from receipt through implementation within configuration management strongly determines the effectiveness of the accounting system and provides the process of gathering data for input to the system and output to the user. The basic functions and relationships of configuration management activities are presented in Figure 2.1.1-1. The user will interface with the computer through terminal devices for demand processing and through punched cards or tapes for batch processing. Figure 2.1.1-2 illustrates the user interface method. The user interface requirements are as follows:

1. Generalized report capability
2. Prompting
3. Function keys
4. Input/output translation capability
5. Input validation
6. Processing interrupt



(1A) INDICATES SAME LOCATION

○ OTHER NUMBERS CORRESPOND TO REPORT OUTPUTS

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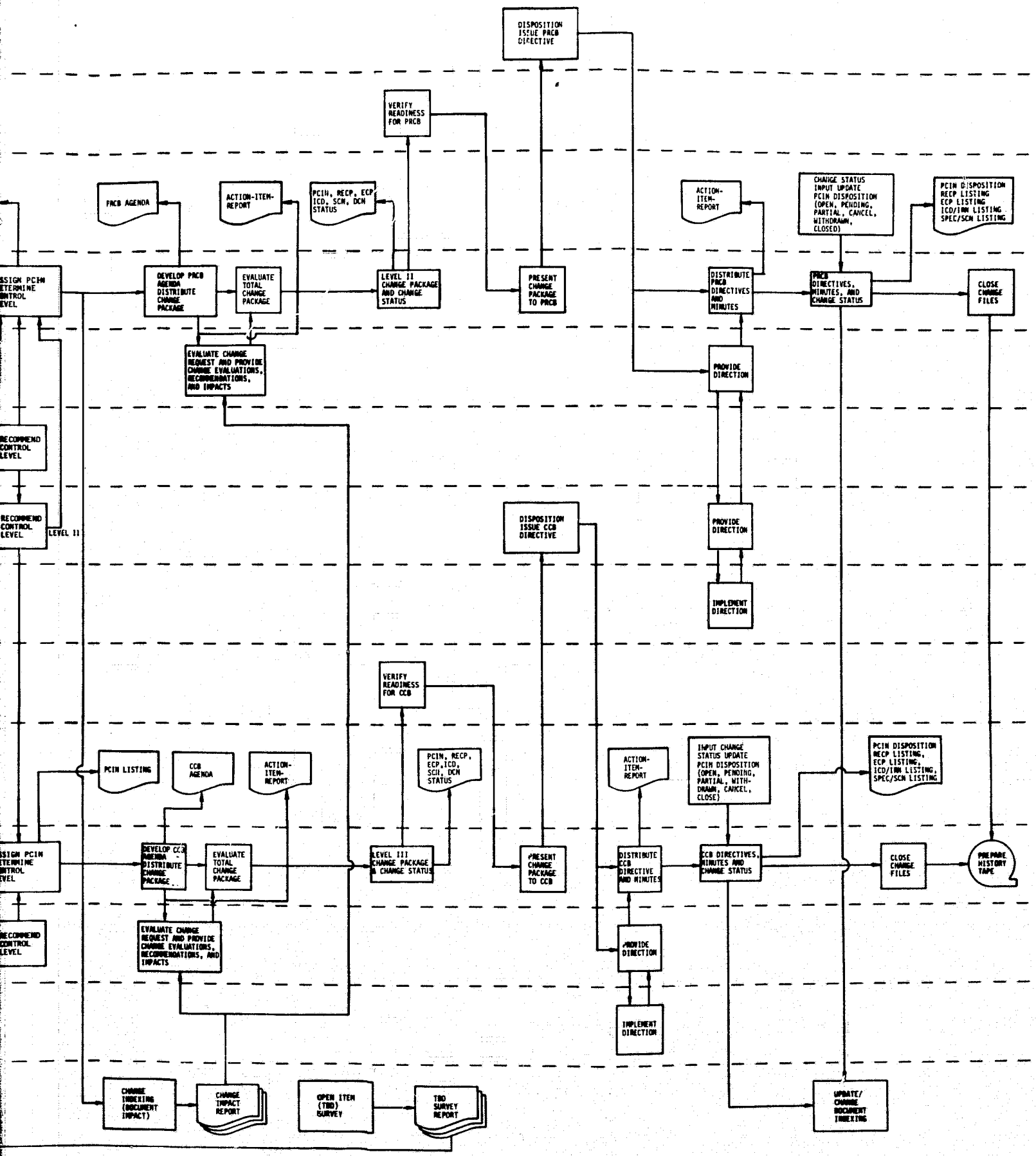

Figure 2.1.1-1. Configuration Accounting and Document Flow Change Process

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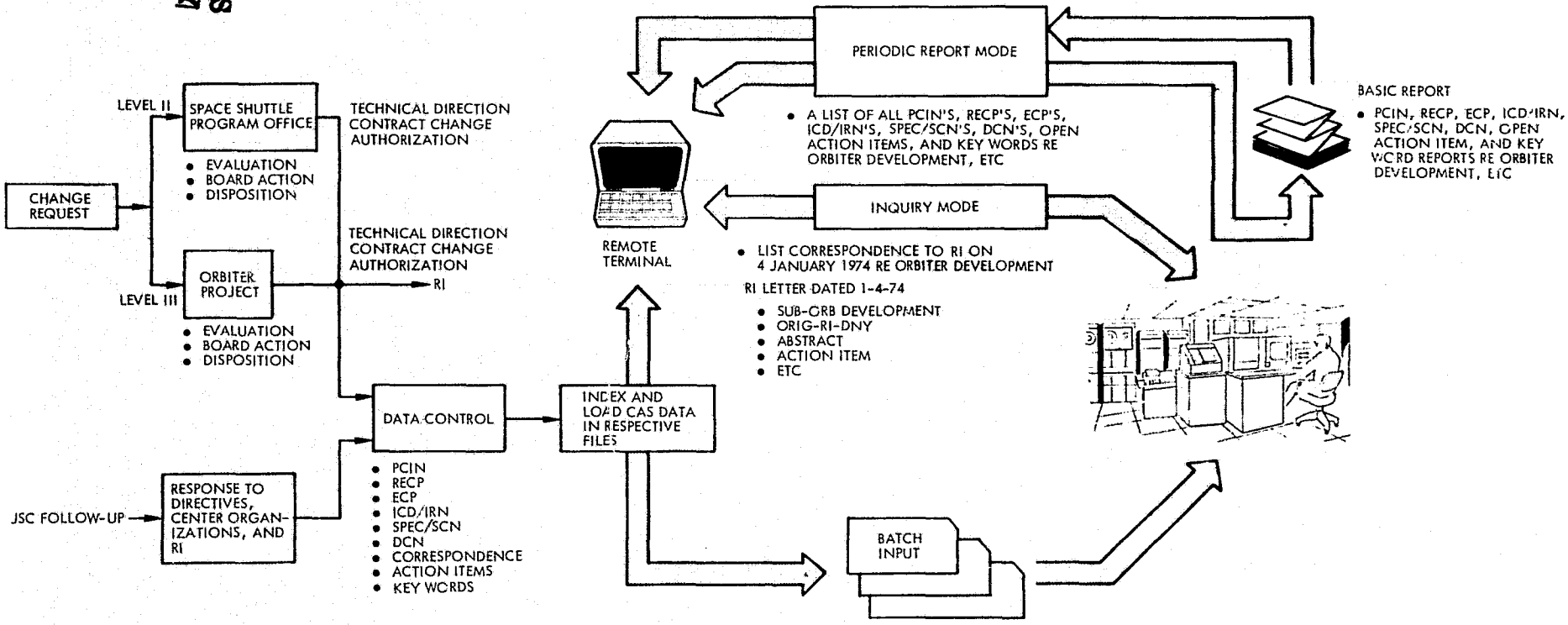


Figure 2.1.1-2. User Interface Method

7. Count (automatic)

8. Restart capability

9. English and procedural language

10. Temporary and permanent procedure retention

11. Response times

    a) Wait for a line -0- 90%, 30 min. - 10% + priority system.

    b) Waiting to make request - 30 sec. avg., 4 min. worse case.

    c) Positive response during response delays of >30 sec.

2.1.1.1 CAS Users. The configuration accounting system users have been determined by centers/contractors and modes of use.

Center/Contractor	
JSC/WC2	DEMAND AND BATCH
MSFC	BATCH INITIALLY (POSSIBLY EXPAND TO DEMAND WITHIN 1 YEAR)
KSC	BATCH INITIALLY (POSSIBLY EXPAND TO DEMAND WITHIN 1 YEAR)
RI	BATCH

2.2 CAS Input Requirements. The CAS data input requirements were derived through both direct interface discussions with the office of primary responsibility and by approximations based on previous experience in the amount of active configuration changes that are expected to be in the system at given time frames (specifically 1 July 1974 and 1 July 1976 [expected peak]). The input requirements are presented as 1) data element description and character length, 2) data file description and sizing, and 3) input event description.

2.2.1 CAS Data Element Description and Character Length. See Table 2.2.1-1. The compilation of data elements was derived from previous meetings between the NASA/JSC/KSC/MSFC personnel and the shuttle prime contractor (RI).

2.2.2 CAS File Description and Sizing. The configuration accounting changes separate into six logical files. The logical files are PCIN, RECP, ECP, ICD/IRN, SPEC/SCN,

Table 2.2.1-1. CAS Data Elements

PCIN DATA

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
PCIN NUMBER	PCIN NO.	15	LEVEL II OR LEVEL III NUMBERS ASSIGNED TO THE ECP, ICD, SPEC. (ASSIGNED BY THE SECRETARY OF THE LEVEL II OR LEVEL III BOARD)
ASSIGNMENT DATE	ASGNMT DATE	6	DATE PCIN NO. IS ASSIGNED. (ASSIGNED BY THE SECRETARY OF THE LEVEL II OR LEVEL III BOARD)
PCIN REVISION	PCIN REV.	2	REVISION OF A PCIN. (ASSIGNED BY THE SECRETARY OF THE LEVEL II OR III BOARD)
AFFECTED PROJECTS	AFFECTED PROJECTS	4	ORBITER SPACE SHUTTLE MAIN ENGINE EXTERNAL TANKS SOLID ROCKET BOOSTER AIR BREATHING ENGINE PAYLOAD LAUNCH AND LANDING (SOME OR ALL FOUND IN TEXT OF PRCBD)
DOCUMENTS AFFECTED (MULTI-FIELDS)	DOCUMENTS AFF.	15	NUMBERS OF THE PROGRAM DOCUMENTS AFFECTED BY THE CHANGE. (OBTAINED FROM TD'S, ECP'S, CORRESPONDENCE, CONTRACT DOCUMENTS)
PRCBD NO.	PRCBD NO.	12	PROGRAM REQUIREMENT CHANGE BOARD DIRECTIVE NO. (ASSIGNED BY THE PRCB. MAY BE THE PCIN NO.)
PRCBD DATE	PRCBD DATE	6	DATE THAT THE PROGRAM REQUIREMENT CHANGE BOARD DIRECTIVE WAS RELEASED. (ASSIGNED BY THE PRCB)

Table 2.2.1-1. CAS Data Elements (Continued)

PCIN DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
TECHNICAL DIRECTIVES (MULTI-FIELDS)	TECHNICAL DIRECTIVES	12	NO. ASSIGNED TO CORRESPONDENCE TRANSMITTING TECHNICAL DIRECTION. (BOTH NASA AND CONTRACTOR NO'S. ARE LISTED. LEVEL II OR III DIRECTIVE)
TD DATES (MULTI-FIELDS)	TD DATE	6	DATE OF THE TECHNICAL DIRECTIVE.
CONTRACTOR NUMBER ASSIGNED TO TD (MULTI-FIELDS)	CONTRACTOR NO.	8	
NEXT ACTIONS FOR TD'S (MULTI-FIELDS)	NEXT ACTION	8	LEVEL II OR III ACTION REQUIRED ON THE PCIN. (OBTAINED VERBALLY OR ON DOCUMENTATION)
NEXT ACTION DATES - SCHEDULED OR ACTUAL (MULTI-FIELDS)	N/A DATE	6	DATE OF NEXT ACTION REQUIRED. (OBTAIN FROM TRANSMITTAL LETTER)
	S/A	1	SCHEDULED OR ACTUAL CODE OF NEXT ACTION. (OBTAIN FROM TRANSMITTAL LETTER)
CHANGE TITLE	PCIN TITLE	54	TITLE OF CHANGE. (ASSIGNED THE SAME TIME THE NUMBER IS ASSIGNED BY THE PRCB SECRETARY)
CHANGE REQUESTS - SCHEDULED OR ACTUAL (MULTI-FIELDS)	CHG REQUEST DATES	6	DATES THAT THE CHANGE REQUESTS ARE SCHEDULED OR COMPLETED. (OBTAIN BY EACH PROGRAM/PROJECT/ELEMENT CONTRACTOR/SYSTEM INTEGRATION CONTRACTOR)
	S/A	1	SCHEDULED OR ACTUAL CODE.

Table 2.2.1-1. CAS Data Elements (Continued)

. . . PCIN DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
CHANGE EVALUATIONS - SCHEDULED OR ACTUAL (MULTI-FIELDS	EVAL. REQUEST DATES	6	DATE THAT THE EVALUATION REQUEST IS SCHEDULED OR COMPLETED. (OBTAIN FROM EVALUATION REQUEST)
	S/A	1	SCHEDULED OR ACTUAL CODE.
BASELINE CHANGE COMPLETION DATE - SCHEDULED OR ACTUAL	BASELINE CHANGES COMPLETION	6	DATE ENTERED WHEN SPEC/ICD OR CHANGES HAVE BEEN RELEASED. (INPUT BY INTEGRATION CONTRACTOR/ELEMENT CONTRACTOR)
	S/A	1	SCHEDULED OR ACTUAL CODE.
RELATED DOCUMENTS (MULTI-FIELDS)	ECP'S	15	
	SPEC'S	15	
	ICD'S	15	

Table 2.2.1-1. CAS Data Elements (Continued)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
		ICD DATA	
ICD NUMBER	ICD NO.	15	INTERFACE CONTROL DOCUMENT NUMBER. (ASSIGNED BY INTEGRATING CONTRACTOR)
ICD REVISION LETTER	ICD REVISION	2	REVISION LETTER ASSIGNED TO AN IRN. (LATEST LETTER OR NUMBER ASSIGNED TO A REVISION OF AN ICD)
ICD RELEASE DATE	RELEASE DATE	6	DATE THE ICD IS RELEASED. (OBTAIN FROM RELEASE IRN OR FROM RELEASE DESK)
BASELINE LEVEL	BASELINE LVL	4	BASELINE LEVEL OF THE DOCUMENT OR B/L AFFECTED BY THE CHANGE. LEVEL I, II, OR III, OR COMBINATIONS THEREOF. (OBTAINED FROM DOCUMENT)
AFFECTED PROJECTS	AFFECTED PROJECTS	4	ORBITER SPACE SHUTTLE MAIN ENGINE EXTERNAL TANK SOLID ROCKET BOOSTER AIR BREATHING ENGINE PAYLOAD LAUNCH AND LANDING (SOME OR ALL FOUND IN TEXT OF PRCB)
		IRN DATA	
IRN NUMBERS (MULTI-FIELDS)	EFFECTIVITY	8	INTERFACE REVISION NOTICE. NUMBER ASSIGNED TO A CHANGE TO AN ICD. (RESPONSIBLE DESIGN GROUP ASSIGNS THE IRN NUMBER)
IRN EFFECTIVITY (MULTI-FIELDS)	EFFECTIVITY	8	EFFECTIVITY OF THE IRN AGAINST AN ICD. (OBTAINED FROM THE IRN OR THE ICD)

Table 2.2.1-1. CAS Data Elements (Continued)

ICD DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
IRN DATES (MULTI-FIELDS)	DATE	6	DATE OF THE RELEASE OF THE IRN. (OBTAIN FROM THE RELEASE IRN OR FROM THE RELEASE DESK)
TRANSMITTAL LETTER NUMBER	TRANSMITTAL LETTER NO.	12	NUMBER OF THE LETTER TRANSMITTING THE IRN OR ICD. (ASSIGNED BY CORRESPONDENCE)
TRANSMITTAL LETTER DATE	XMTL DATE	6	DATE OF THE LETTER TRANSMITTING AN IRN OR ICD. (ASSIGNED BY CORRESPONDENCE)
NEXT ACTIONS (MULTI-FIELDS)	NEXT ACTIONS	8	NEXT ACTIONS REQUIRED. (OBTAINED FROM THE TRANSMITTAL LETTER)
NEXT ACTION DATES - SCHEDULED OR ACTUAL (MULTI-FIELDS)	N/A DATES	6	DATE OF NEXT ACTIONS REQUIRED. (OBTAINED VERBALLY OR FROM CORRESPONDENCE)
	S/A	1	SCHEDULED OR ACTUAL CODE OF NEXT ACTION.
ICD TITLE	ICD TITLE	54	TITLE ASSIGNED TO THE ICD. (ASSIGNED THE SAME TIME THAT THE NUMBER IS ASSIGNED)
CONTRACT REVISION NUMBER (MULTI-FIELDS)	CONTRACT REVISION NO.	12	CONTROL NUMBER ASSIGNED BY THE CONTRACTOR. (ORBITER CONTRACTOR ONLY)
DOCUMENTS AFFECTED (MULTI-FIELDS)	DOCUMENTS AFFECTED	15	NUMBERS OF PROGRAM DOCUMENTS AFFECTED BY THE CHANGE. (OBTAINED FROM TD'S, ECP'S, CORRESPONDENCE, ETC.)
ASSOCIATE DESIGN AGENCY (MULTI-FIELDS)	ASSOC DESIGN AGENCY	12	LEVEL III PROJECT OFFICE OR ELEMENT CONTRACTOR AS IDENTIFIED ON THE DOCUMENT.

Table 2.2.1-1. CAS Data Elements (Continued)

ICD DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
			CEI DATA
CEI NUMBER	CEI NO.	8	NUMBER OF CEI AFFECTED.
CEI PART NUMBER	PART NO.	15	PART NUMBER OF CEI AFFECTED. (OBTAINED FROM ECP)
CEI NAME	NAME	12	NAME OF CEI. (OBTAINED FROM ECP)
MANUFACTURERS NAME	MFG. NAME	8	CONTRACTOR RESPONSIBLE FOR DOCUMENT PREPARATION AND MAINTENANCE. (OBTAINED FROM ECP)
REMARKS	REMARKS	36	PERTINENT REMARKS AGAINST THE CHANGE.
RELATED DOCUMENTS (MULTI-FIELDS)	ECP'S	15	
	SPEC'S	15	
	PCIN'S	15	

Table 2.2.1-1. CAS Data Elements (Continued)

ECP DATA

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
ECP NUMBER	ECP NUMBER	15	NUMBER ASSIGNED TO THE ECP. (ASSIGNED BY THE ASSOCIATE CONTRACTOR)
ECP REVISION NUMBER	ECP REVISION	2	REVISION LETTER/NUMBER OF THE ECP. (ASSIGNED BY THE ASSOCIATE CONTRACTOR)
ECP DATE	ECP DATE	6	DATE ON THE ECP. (DATE THAT THE ECP WAS SIGNED)
ECP TITLE	CHANGE TITLE	54	TITLE/NOMENCLATURE OF THE CHANGE. (TITLE IS ASSIGNED THE SAME TIME THE NUMBER IS ASSIGNED)
CHANGE TYPE (HARDWARE OR DOC.)	CHANGE TYPE	4	CODE FOR IDENTIFYING WHETHER CHANGE AFFECTS HARDWARE OR DOCUMENTATION. (TEXT OF THE ECP)
AFFECTED PROJECTS	AFFECTED PROJECTS	4	ORBITER SPACE SHUTTLE MAIN ENGINE EXTERNAL TANK SOLID ROCKET BOOSTER AIR BREATHING ENGINE PAYLOAD LAUNCH AND LANDING (SOME OR ALL FOUND IN TEXT OF PRCB)
ENGINEERING RELEASE COMPLETION DATE	ENG. RELEASE COMPLETE	6	DATE ECP WAS COMPLETED THROUGH ENGINEERING. (OBTAIN FROM MCR OR FROM SUBMITTAL CORRESPONDENCE)
COMPLETION DATE - SCHEDULED OR ACTUAL	COMPLETION DATE	6	DATE THAT ACTION WAS SCHEDULED FOR COMPLETION OR ACTUALLY COMPLETE.
	S/A	1	(SCHEDULED IS OBTAINED FROM APPROVED ECP. ACTUAL IS OBTAINED WHEN LAST ACTION IS CLOSED)

Table 2.2.1-1. CAS Data Elements (Continued)

ECP DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
CCBD NUMBER	CCBD NUMBER	12	NUMBER ASSIGNED APPROVING STUDY, DESIGN, COORDINATION, MANUFACTURING, ETC. (ASSIGNED BY THE CCBD)
CCBD DATE	CCBD DATE	6	DATE THAT THE DISPOSITION WAS ISSUED. (ASSIGNED BY THE CCBD)
TRANSMITTAL LETTER NO.	TRANSMITTAL LETTER NO.	12	NUMBER OF THE LETTER TRANSMITTING THE ECP. (ASSIGNED BY CORRESPONDENCE)
TRANSMITTAL LETTER DATE	XMTL DATE	6	DATE OF THE TRANSMITTAL LETTER.
NEXT ACTIONS (MULTI-FIELDS)	NEXT ACTIONS	8	NEXT ACTIONS REQUIRED. (OBTAINED FROM THE TRANSMITTAL LETTER)
NEXT ACTIONS - SCHEDULED OR ACTUAL (MULTI-FIELDS)	N/A DATE	6	DATE OF NEXT ACTION REQUIRED. (OBTAIN FROM TRANSMITTAL LETTER)
	S/A	1	SCHEDULED OR ACTUAL CODE OF NEXT ACTION. (OBTAIN FROM TRANSMITTAL LETTER)
BASELINE LEVEL	BASELINE LVL	4	BASELINE LEVEL OF THE DOCUMENT OR B/L AFFECTED BY THE CHANGE. LEVEL I, II, III, OR COMBINATIONS THEREOF. (IDENTIFIED ON THE BASELINE DOCUMENT)
COST PER FLIGHT BASELINE $	COST PER FLT. BASELINE	8	DOLLAR FIGURE BASELINE. (OBTAINED FROM CHANGE EVALUATION SHEET)
COST PER FLIGHT IMPACT $	IMPACT	8	PLUS OR MINUS ESTIMATED DOLLAR VALUE EFFECT AGAINST THE CPF BASELINE -XXXX, +XXXX. (OBTAINED FROM CHANGE EVALUATION FORM)

Table 2.2.1-1. CAS Data Elements (Continued)

...ECP DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
MANUFACTURERS NAME	MFG. NAME	8	CONTRACTOR RESPONSIBLE FOR DOCUMENT PREPARATION AND MAINTENANCE. (OBTAINED FROM ECP LOGS)
CHANGE CONTACTS NAME	CHG CONTACT (NAME)	12	NAME OF INDIVIDUAL TO BE CONTACTED REGARDING THE CHANGE. (OBTAIN FROM ANY CORRESPONDENCE)
ASSOCIATE DESIGN AGENCY	ASSOC DES AGENCY	12	LEVEL III PROJECT OFFICE OR ELEMENT CONTRACTOR AS IDENTIFIED ON THE DOCUMENT.
CCA NUMBER	CCA NO.	8	CONTRACT CHANGE AUTHORIZATION. (OBTAINED FROM THE CCA)
CCA DATE	CCA DATE	6	DATE ON THE CCA. (OBTAINED FROM THE CCA)
CONTRACTORS CONTROL NUMBER	CNTRCTR CONTROL NO.	12	CONTROL NUMBER ASSIGNED BY THE CONTRACTOR.
CONTRACT APPROVAL REQUESTED DATE	CONTRACT APPROVAL REQUESTED	6	DATE WHICH CONTRACT AUTHORIZATION IS NEEDED. (OBTAINED FROM ECP)
		CEI DATA	
CEI EFFECTIVITY	CEI EFFECTIVITY	8	EFFECTIVITY OF CEI. (OBTAINED FROM ECP)
CEI PART NUMBER	PART NUMBER	15	PART NUMBER OF CEI AFFECTED. (OBTAINED FROM ECP)
CEI NAME	NAME	12	NAME OF CEI AFFECTED. (OBTAINED FROM ECP)
SUBSYSTEM AFFECTED (MULTI-FIELDS)	SUBSYSTEM AFF (WBS)	12	SUBSYSTEM AFFECTED OR WBS NO. AS IDENTIFIED ON THE WORK BREAKDOWN CHART. (OBTAIN BY MATCHING SUBJECT MATTER WITH CHART)

Table 2.2.1-1. CAS Data Elements (Continued)

ECP DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
DOCUMENTS AFFECTED (MULTI-FIELDS)	DOC. AFF	15	NUMBERS OF OTHER PROGRAM DOCUMENTS AFFECTED BY THE CHANGE. (OBTAINED FROM TD'S, ECP'S, CORRESPONDENCE, ETC.)
TEST/FLIGHT/GSE TRAINERS AFFECTED	T/F/G	5	TYPE OF MODS AFFECTING TEST, FLIGHT, GSE, OR TRAINERS. (OBTAINED FROM ECP)
SUBCONTRACTORS INVOLVED (MULTI-FIELDS)	SUBCONTRACTORS	12	NAME OF SUBCONTRACTOR/SUPPLIER INVOLVED WITH THE CHANGE. (OBTAINED FROM ECP, TD'S, CORRESPONDENCE, ETC.)
REMARKS	REMARKS	36	PERTINENT REMARKS AGAINST THE CHANGE.
ESTIMATED MANHOURS	EST M/H	8	ESTIMATED MANHOURS REQUIRED TO ACCOMPLISH THE MODIFICATION INSTALLATION. (OBTAINED FROM ECP)
MILESTONE CHANGE INCORPORATION POINT	MILESTONE INC PT	8	EVENT ORIENTED POINT IN TIME WHEN CHANGE MUST BE IMPLEMENTED. (OBTAINED FROM ECP SCHEDULES)
RELATED DOCUMENTS (MULTI-FIELDS)	SPECS	15	
	ICD'S	15	
	PCIN'S	15	
THE FOLLOWING TO BE ADDED AS NEEDED:			
MOD KIT NUMBERS (MULTI-FIELDS)			
MOD KIT INSTALLATION SITE (MULTI-FIELDS)			
VEHICLE FIRST EFFECTIVITY			
SHIP DATE (MULTI-FIELDS)			
DATE ACTUALLY INSTALLED (MULTI-FIELDS)			
INSTALLED BY (MULTI-FIELDS)			

Table 2.2.1-1. CAS Data Elements (Continued)

SPEC DATA

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
SPECIFICATION/PLAN NUMBER	SPEC NO.	15	NUMBER ASSIGNED TO THE BASIC SPECIFICATION OR PLAN. (ASSIGNED BY THE INTEGRATING CONTRACTOR)
SPECIFICATION/PLAN REVISION NO.	SPEC REVISION	2	REVISION LETTER/NUMBER ASSIGNED TO THE SPECIFICATION/PLAN CHANGE. (LATEST LETTER OR NUMBER ASSIGNED TO THE SPECIFICATION/PLAN REVISION)
RELEASE DATE	RELEASE DATE	6	DATE THAT THE SPECIFICATION/PLAN IS RELEASED. (OBTAIN FROM RELEASED SPEC/PLAN OR RELEASE DESK)
AFFECTED PROJECTS	AFFECTED PROJECTS	4	ORBITER SPACE SHUTTLE MAIN ENGINE EXTERNAL TANK SOLID ROCKET BOOSTER AIR BREATHING ENGINE PAYLOAD LAUNCH AND LANDING. (SOME OR ALL FOUND IN THE TEXT OF PRCBD)
SCN/DCN NUMBER (MULTI-FIELDS)	NUMBER	8	SPECIFICATION CHANGE NOTICE OR DOCUMENT CHANGE NOTICE NUMBER RELATED TO THE SPECIFICATION OR PLAN AFFECTED. (ASSIGNED BY THE INTEGRATING CONTRACTOR)
SCN/DCN EFFECTIVITY (MULTI-FIELDS)	EFFECTIVITY	8	CEI EFFECTIVITY OF THE SCN/DCN. (EFFECTIVITY ON THE SCN/DCN)
SCN/DCN DATES (MULTI-FIELDS)	DATE	6	DATE SCN OR DCN WAS RELEASED OR APPROVED. (DATE ASSIGNED TO THE RELEASED OR APPROVED SCN/DCN)
TRANSMITTAL LETTER NUMBER	TRANSMITTAL LETTER NO	12	NUMBER OF LETTER TRANSMITTING SPECIFICATION. (ASSIGNED BY CORRESPONDENCE)

Table 2.2.1-1. CAS Data Elements (Continued)

SPEC DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
TRANSMITTAL LETTER DATE	XMTL DATE	6	DATE OF TRANSMITTAL LETTER. (ASSIGNED BY CORRESPONDENCE)
NEXT ACTIONS (MULTI-FIELDS)	NEXT ACTIONS	8	NEXT ACTIONS REQUIRED. (OBTAINED FROM THE TRANSMITTAL LETTER)
NEXT ACTIONS DATES - SCHEDULED OR ACTUAL (MULTI-FIELDS)	N/A DATE	6	DATE OF NEXT ACTIONS REQUIRED. (OBTAINED FROM TRANSMITTAL LETTER)
	S/A	1	SCHEDULED OR ACTUAL CODE OF NEXT ACTIONS. (OBTAINED FROM TRANSMITTAL LETTER)
BASELINE LEVEL	BASELINE LVL	4	BASELINE LEVEL OF THE DOCUMENT OR B/L AFFECTED BY THE CHANGE. LEVEL I, II, III, OR COMBINATIONS THEREOF. (IDENTIFIED ON THE BASELINE DOCUMENT)
SPEC/PLAN TITLE	SPEC TITLE	54	TITLE OF SPECIFICATION OR PLAN. (OBTAINED FROM SPECIFICATION OR PLAN)
DOCUMENTS AFFECTED (MULTI-FIELDS)	DOCUMENTS AFF	15	NUMBERS OF THE PROGRAM DOCUMENTS AFFECTED BY THE CHANGE. (OBTAINED FROM TD'S, ECP'S, CORRESPONDENCE, ETC.)
ASSOCIATE DESIGN AGENCY (MULTI-FIELDS)	ASSOC. DESIGN AGENCY	12	LEVEL III PROJECT OFFICE OR ELEMENT CONTRACTOR AS IDENTIFIED ON THE DOCUMENT.
CEI NUMBER	CEI NUMBER	8	NUMBER OF CEI AFFECTED.
CEI PART NUMBER	PART NUMBER	15	PART NUMBER OF CEI AFFECTED. (OBTAINED FROM ECP)
CEI NAME	NAME	12	NAME OF CEI AFFECTED. (OBTAINED FROM ECP)
MANUFACTURERS NAME	MFG. NAME	8	CONTRACTOR RESPONSIBLE FOR DOCUMENT PREPARATION AND MAINTENANCE. (OBTAINED FROM ECP)

Table 2.2.1-1. CAS Data Elements (Continued)

SPEC DATA (CONTINUED)

DATA ELEMENT	FIELD TITLE	MAXIMUM CHARACTER LENGTH	DATA DESCRIPTION
CONTRACTORS CONTROL NUMBERS (MULTI-FIELDS)	CONTRACTOR CONTROL NO.'S	12	CONTROL NUMBER ASSIGNED BY CONTRACTOR.
REMARKS	REMARKS	36	PERTINENT REMARKS AGAINST SPECIFICATION/PLAN ARE REQUIRED.
RELATED DOCUMENTS (MULTI-FIELDS)	ECP'S ICD'S PCIN'S	15 15 15	

and DCN. The single integral number that ties all related change paper together is the program change identification number (PCIN). Interrelationship must be provided file-to-file and in some cases also element-to-element. Provisions must be made to relate the current status and/or disposition of each piece of change paper.

In deriving the data base sizing, certain assumptions were made as follows:

a) 3,400 active changes in the system by 1 July 1974.

b) 26,250 active changes in the system by 1 July 1976.

c) 6 logical data files.

Based on the above assumptions, the CAS data base files, records, attributes, and total characters are as follows:

a) Logical Data Files (1 July 1974)

	Records
PCIN Records	3,400
RECP Records	2,720
ECP Records	2,312
SPEC/SCN Records	2,312
ICD/IRN Records	435
DCN Records	680

Total logical records: 11,859
Average attribute per record: 20
Average character per attribute: 25
Total characters per record: 25 x 20 = 500
Total characters per system: 500 x 11,859
= 5,929,500

b) Logical Data Files (1 July 1976)

	Records
PCIN Records	26,250
RECP Records	21,000
ECP Records	17,850
ICD/IRN Records	3,570
SPEC/SCN Records	17,850
DCN Records	5,250

Total logical records: 91,770
Total characters: 500 x 91,770 =
45,885,000
6 BIT per CHAR
7,647,500 words (36 BIT)

c) Volume of Inputs by Mode

Demand
40 inquiry/entries per working day by Configuration Management Office (CMO)
Batch
Average 120 to 130 record entries per week for each of 3 files
Average 10 record entries per week for each of 3 files

2.2.3 CAS Input Event Description. See Table 2.2.3-1.

2.3 CAS Output Requirements. The output requirements have been determined based on the same assumptions as were used for the input requirements, direct interface with the office of primary responsibility, and interface with user organization.

2.3.1 CAS Volume of Output. The volume of output is presented by mode (demand and batch) projected to 1 July 1974 and 1 July 1976.

a) Volume of output by mode:

1) 1 July 1974

Demand
Approximately 40 to 50, 80 character lines per query
Two week PRCB agenda items approximately 40, 80 character lines
Weekly CCB agenda items approximately 10, 80 character lines

Batch
Weekly action item report, approximately 480, 132 character lines
Monthly PCIN status report, approximately 10,200, 132 character lines
Monthly RECP status report, approximately 7,000, 132 character lines
Monthly ECP status report, approximately 7,000, 132 character lines
Monthly status of ICD's by PCIN, approximately 1,200, 132 character lines
Monthly status of SCN's by PCIN, approximately 7,000, 132 character lines
Monthly status of DCN's by PCIN, approximately 1,800, 132 character lines

Special reports as required cross-indexed approximately 3,500, 132 character lines
Microfilm and reproducible hard copies 8" x 10-1/2" three hole punched for selected reports
Checkpoint tape required weekly
Closed out data printed to tape monthly and stored for duration of program plus.

2) 1 July 1976

Demand
Approximately 40 to 50, 80 character lines per query
Two week PRCB agenda items approximately 60, 80 character lines
Weekly CCB agenda items approximately 16 to 20, 80 character lines

TABLE 2.2.3-1. CONFIGURATION ACCOUNTING SYSTEM INPUT EVENT DESCRIPTION

EVENT NUMBER	EVENT NAME	SEQUENTIAL RELATIONSHIP	FUNCTIONS	EVENT MODE	RESPONSE TIME	FREQUENCY	TIME PERIOD	VOLUME	OPERATIONS
1	Initial Input	Initial input to *primary number automatically establishes records in related files. Security required.	Create	Batch or demand	72 hours 4 min	Weekly Daily	Overnight/ Weekend 0700-1900	Demand 40 entries/day Batch 200 entries/week	Security required at record level
2	Update Input	Edit for record existence. Security required.	Update	Batch or demand	72 hours 4 min	Weekly Daily	Overnight/ Weekend 0700-1900	Demand 40 entries/day Batch 200 entries/week	Security required at record level
3	Query	Conditional search.	Retrieve	Batch or demand	72 hours 4 min	Weekly Daily	Overnight/ Weekend	Demand 20 entries/day Batch 40 entries/week	Interrelate elements

*CAS single authoritative number that links all change paper/occurrences.

Batch
Weekly action item report approximately 1,680, 132 character lines
Monthly PCIN status report approximately 100,000, 132 character lines
Monthly RECP status report approximately 80,000, 132 character lines
Monthly ECP status report approximately 76,000, 132 character lines

Special reports as required cross-indexed approximately 3,500, 132 character lines
Microfilm and reproducible hard copies 8" x 10 1/2" three hole punched for selected reports
Checkpoint tape required weekly
Closed out data printed to tape monthly and stored for duration of program plus

b) Frequency of output by mode:

Demand
40 inquiries per working day by CMO
20 inquiries per working day by each of 5 other on-line users
Two week PRCB agenda items
Weekly CCB agenda items

Batch
Weekly status report of action items
Monthly status reports of engineering changes by PCIN, RECP, ECP, CCA, and TD numbers
Monthly status reports of ICD's, SCN's, and DCN's by PCIN
Special reports as required cross-indexed

2.3.2 CAS Output Event Description. See Table 2.3.2-1.

TABLE 2.3.2-1. CONFIGURATION ACCOUNTING SYSTEM
OUTPUT EVENT DESCRIPTION

EVENT NUMBER	EVENT NAME	SEQUENTIAL RELATIONSHIP	FUNCTIONS	EVENT MODE	RESPONSE TIME	FREQUENCY	TIME PERIOD	VOLUME	OPERATIONS
1	Output to Users	No output during input. Conditional response to queries.	Retrieval	Demand	4 min	Daily	0700-1900	3000 lines/ day	Sort 60 search keys maximum, 30 used frequently remote batch required, interrelate file-to-file, report format required.
2	Output to Users	No output during input. Conditional response to queries.	Retrieval	Batch	72 hours	Weekly	Overnight/ Weekend	36,000 lines/ month	Same as above.

3. FUNCTIONAL DESIGN

The CAS functional design provides the layout of what must be done to accomplish the application. The file layout, data elements, report output, and conditional queries are presented herein.

3.1 CAS Data Base Layout. The CAS data base has been designed to provide interrelationship file-to-file and where required element-to-element. The data base map is presented in Figure 3.1-1. The interrelationship of files and elements is reflected by the bridge create (B:C), bridge verify (B:V), joint store (JS), and spans (S).

3.2 CAS Data Elements By File. The CAS data elements are presented by file and shows the element, character length, and data description (see Table 3.2-1).

3.3 Report Output Format. The CAS report output formats are presented for both demand (on-line hardcopy printer) and batch (off-line printer). The formats will not be fixed in that on-line changes may be required and can easily be accomplished. Examples of the formats are as follows:

PCIN-REPORT as of date

Page No. 001

PCIN-NO PCIN-DATE PCIN-TITLE REL-RECP REL-ECP PCIN-DISP DSP-DATE

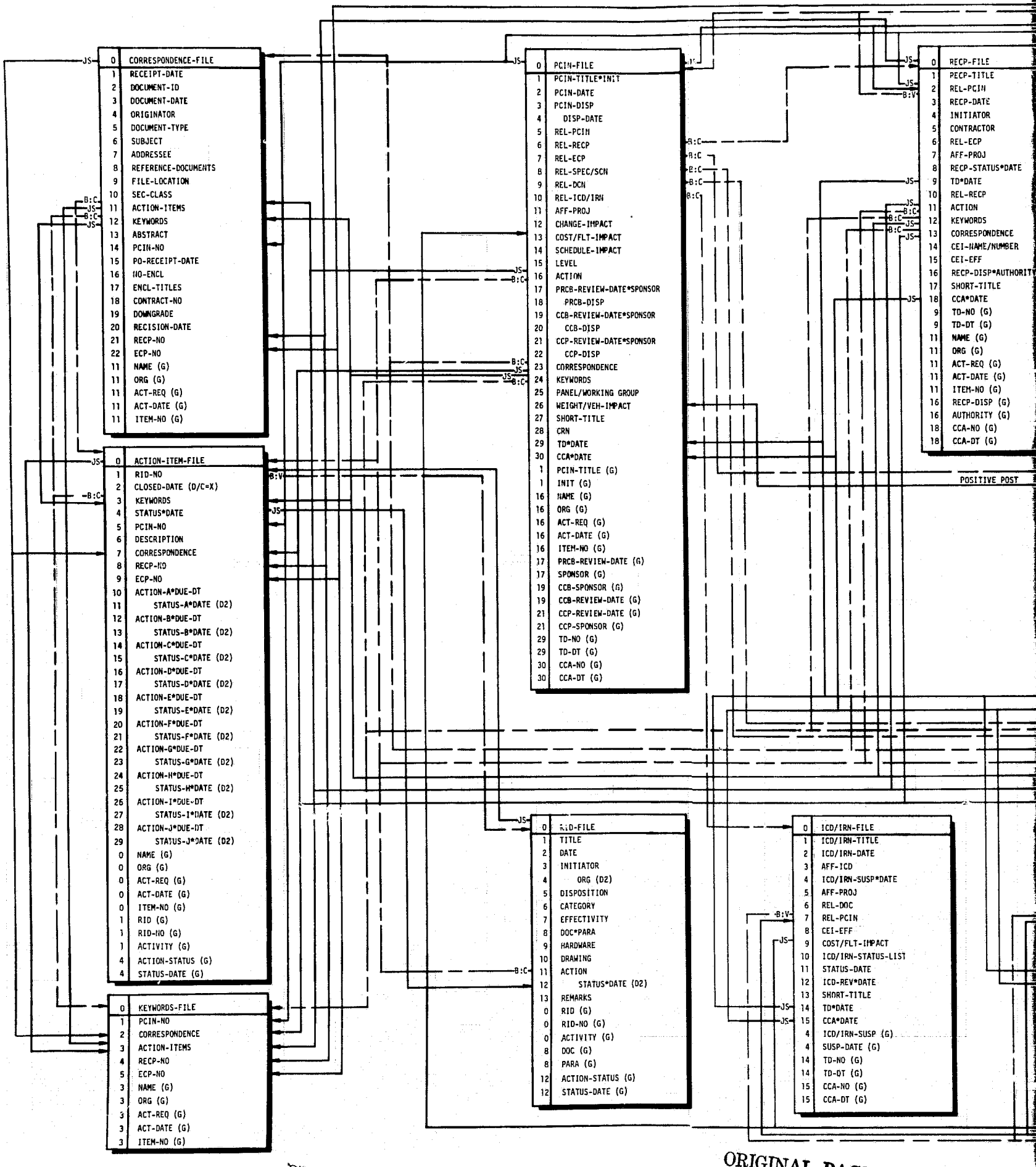
The data that will be contained in the above report will be sorted on PCIN number and will present the PCIN number, PCIN date, PCIN title, related RECP(s), related ECP(s), PCIN disposition, and disposition date. The as of date will be the day-month-year that the report will be generated.

RECP-REPORT as of date

Page No. 001

RECP-NO RECP-DATE RECP-TITLE REL-PCIN REL-ECP AFF-PROJ RECP-STATUS STATUS-DATE

The data that will be contained in the RECP-REPORT will be sorted on RECP number and will present the RECP number, RECP date, RECP



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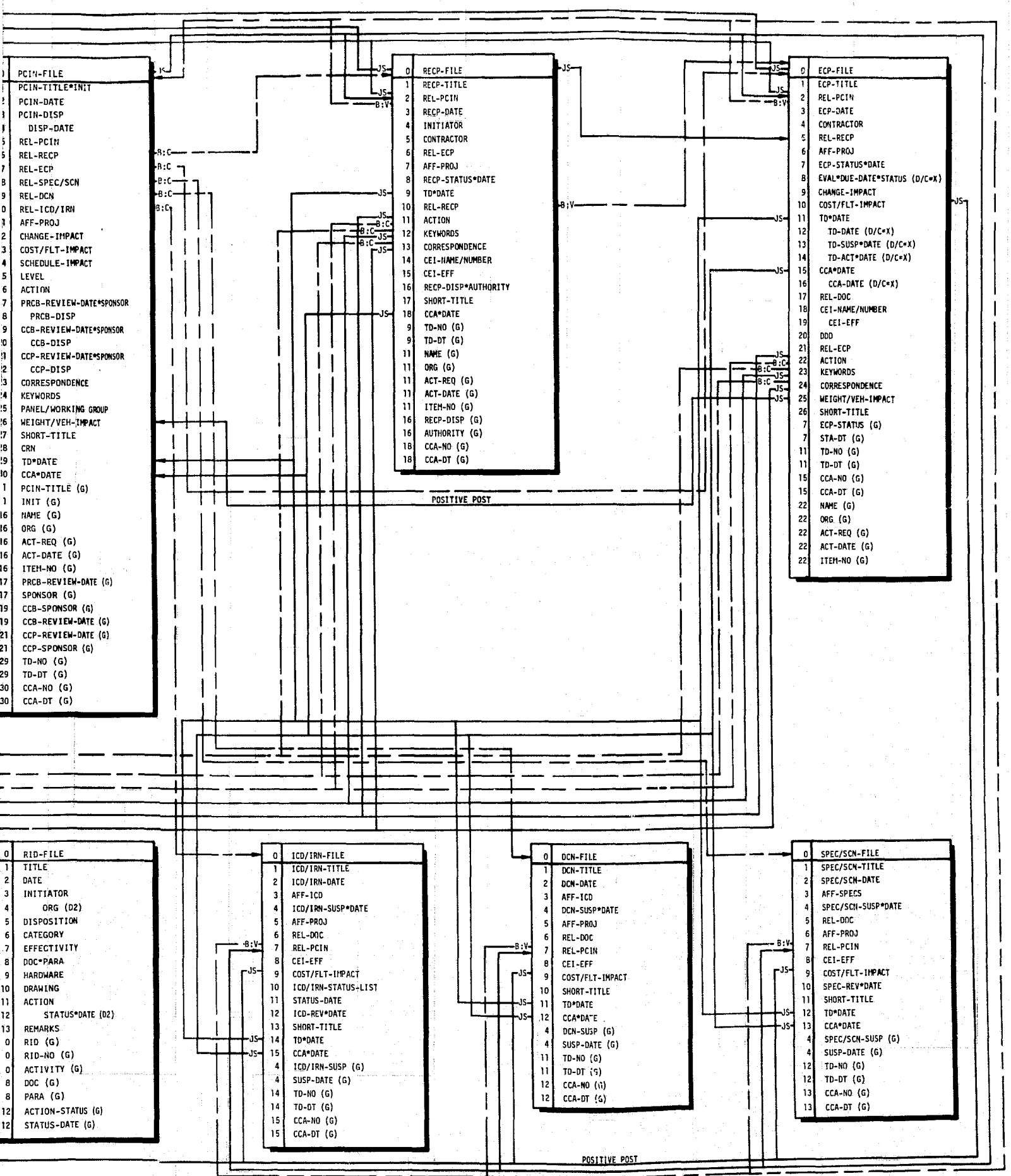

Figure 3.1-1. Configuration Accounting System (CAS) Data Base Map

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Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

PCIN-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
PCIN-FILE	8	RECORD ID, UP TO 8 DIGIT ALPHA-NUMERIC PROGRAM CHANGE IDENTIFICATION NUMBER (PCIN)
PCIN-TITLE*INIT	54*12	UP TO 54 DIGIT ALPHA-NUMERIC PCIN TITLE WITH UP TO 12 DIGIT ALPHA NAME OF PCIN INITIATOR
PCIN-DATE	11	11 DIGIT ALPHA-NUMERIC DATE PCIN WAS INITIATED
PCIN-DISP	7	7 DIGIT ALPHA PRESENTING DISPOSITION AS OPEN (BEING EVALUATED PRE-BOARD), PENDING (AWAITING ACTION BY CONTRACTOR OR OTHERS-POST BOARD), PARTIAL (PORTION(S) OF THE CHANGE HAS BEEN COMPLETED), WITHDRN (NO REQUIREMENT), CANCEL (NO REQUIREMENT), CLOSED (CHANGE FULLY IMPLEMENTED)
DISP-DATE	11	11 DIGIT ALPHA-NUMERIC PRESENTING DATE OF DISPOSITION
REL-PCIN	8	5 TO 8 DIGIT ALPHA-NUMERIC PRESENTING ALL PCIN'S RELATED TO RECORD ID
REL-RECP	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) RELATING TO RECORD ID
REL-ECP	9	UP TO 9 DIGIT ALPHA-NUMERIC PRESENTING ENGINEERING CHANGE PROPOSAL (ECP) RELATED TO RECORD ID
REL-SPEC/SCN	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING SPECIFICATION(S) OR SPECIFICATION CHANGE NOTICE(S) RELATING TO RECORD ID
REL-DCN	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING DOCUMENT CHANGE NOTICE(S) RELATING TO RECORD ID

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

PCIN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
REL-ICD/IRN	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING INTERFACE CONTROL DRAWING/DOCUMENTATION OR INTERFACE REVISION NOTICE(S) RELATING TO RECORD ID.
AFF-PROJ	10	UP TO 10 DIGIT ALPHA PRESENTING THE PROJECT(S) AFFECTED BY THE CHANGE; E.G., ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (SRB), OR LAUNCH & LANDING (L/L).
CHANGE-IMPACT	18	UP TO 18 DIGIT ALPHA PRESENTING IMPACT ON SAFETY, MAINTAINABILITY, RELIABILITY, GSE, SIMULATORS & TRAINERS, PERFORMANCE, PRODUCIBILITY, BALANCE & STABILITY, SPARES, FACILITIES, FLIGHT OPERATIONS, SOFTWARE, PAYLOADS.
COST/FLT-IMPACT	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING DOLLAR COST A CHANGE IMPOSES. NO DIRECT DATA ENTRY, POSITIVE POST FROM ANOTHER FILE ENTRY.
SCHEDULE-IMPACT	12	UP TO 12 DIGIT NUMERIC PRESENTING THE SCHEDULE IMPACT IN MONTHS.
LEVEL	3	UP TO 3 DIGITS PRESENTING BASELINE LEVEL OF CHANGE EITHER II OR III.
ACTION	12*7*20*6*10	UP TO 12 DIGIT ALPHA PRESENTING ACTIONEE: UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING ACTIONEE ORGANIZATION: UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ACTION REQUIRE: 6 DIGIT NUMBER PRESENTING DATA ACTION REQUIRED BY YEAR-MONTH-DAY; UP TO 10 DIGIT ALPHA-NUMERIC ACTION-ITEM TRACKING NUMBER REFLECTING MONTH, DAY & SEQUENCE NUMBER.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

PCIN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
PRCB-REVIEW-DATE*SPONSOR	6*12	6 DIGIT NUMERIC DATE CHANGE SCHEDULED TO BE PRESENTED OR WAS PRESENTED TO PROGRAM REQUIREMENTS CONTROL BOARD BY YEAR-MONTH-DAY AND UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING SPONSOR OF CHANGE
PRCB-DISP	18	UP TO 18 DIGIT ALPHA PRESENTING DISPOSITION OF CHANGE BY THE PRCB (APPROVED OR DISAPPROVED).
CCB-REVIEW-DATE*SPONSOR	6*12	6 DIGIT NUMERIC DATE CHANGE SCHEDULE TO BE PRESENTED OR WAS PRESENTED TO THE CONFIGURATION CONTROL BOARD (CCB) BY YEAR-MONTH-DAY AND UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING SPONSOR OF CHANGE
CCB-DISP	18	UP TO 18 DIGIT ALPHA PRESENTING DISPOSITION OF CHANGE BY THE CCB (APPROVED OR DISAPPROVED)
CCP-REVIEW-DATE*SPONSOR	6*12	6 DIGIT NUMERIC DATE CHANGE SCHEDULED TO BE PRESENTED OR WAS PRESENTED TO THE CONFIGURATION CONTROL PANEL BY YEAR-MONTH-DAY AND UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING SPONSOR OF CHANGE
CCP-DISP	18	UP TO 18 DIGIT ALPHA PRESENTING DISPOSITION OF CHANGE BY THE CCP (APPROVED OR DISAPPROVED)
CORRESPONDENCE	75	UP TO 75 DIGIT ALPHA-NUMERIC PRESENTING LETTER(S) OF TRANSMITTAL, MEMO(S), MESSAGE(S), ETC. RELATING TO RECORD ID
KEYWORDS	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING DESCRIPTIVE KEYWORD(S)

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

PCIN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
PANEL/WORKING GROUP	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE ENGINEERING/ OPERATIONS PANEL/WORKING GROUP(S) EVALUATING CHANGE.
WEIGHT/VEH-IMPACT	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING WEIGHT IN POUNDS THAT A CHANGE IMPOSES. NO DIRECT ENTRY, POSITIVE POST FROM ANOTHER FILE ENTRY.
SHORT-TITLE	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ABBREVIATED TITLE OF CHANGE FOR 80 CHARACTER TERMINAL REPORT FORMAT.
CRN	10	UP TO 10 DIGIT CONTRACT REVISION NUMBER.
TD*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER AND 6 DIGIT NUMERIC DATE OF TD BY YEAR, MONTH, DAY. NO DIRECT ENTRY, DATA IS AUTOMATICALLY JOINT STORED FROM ANOTHER FILE ENTRY.
CCA*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER AND 6 DIGIT NUMERIC DATE OF CCA BY YEAR, MONTH, DAY. NO DIRECT ENTRY, DATA IS AUTOMATICALLY JOINT STORED FROM ANOTHER FILE ENTRY.
PCIN-TITLE	54	UP TO 54 DIGIT ALPHA-NUMERIC PRESENTING PCIN TITLE AND NUMBER. NO STORE RETRIEVAL - FROM PCIN-TITLE*INIT ABOVE.
INIT	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE NAME OF THE INITIATOR. NO STORE RETRIEVAL - FROM PCIN-TITLE*INIT ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

PCIN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
NAME	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE NAME. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ORG	7	UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE ORGANIZATION. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ACT-REQ	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION REQUIRED. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ACT-DATE	6	6 DIGIT NUMERIC PRESENTING THE DATE ACTION WAS ASSIGNED BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ITEM-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION ITEM TRACKING NUMBER. NO STORE RETRIEVAL - FROM ACTION ABOVE.
PRCB-REVIEW-DATE	11	AN 11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE SCHEDULED FOR THE PROGRAM REQUIREMENTS CONTROL BOARD (PRCB). NO STORE RETRIEVAL - FROM PRCB-REVIEW-DATE*SPONSOR ABOVE.
SPONSOR	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE NAME OF THE PRCB SPONSOR. NO STORE RETRIEVAL - FROM PRCB-REVIEW-DATE* SPONSOR ABOVE.
CCB-REVIEW-DATE	11	UP TO 11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE SCHEDULED FOR THE CONFIGURATION CONTROL BOARD (CCB). NO STORE RETRIEVAL - FROM CCB-REVIEW-DATE*SPONSOR ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

PCIN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
CCB-SPONSOR	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE NAME OF THE CCB SPONSOR. NO STORE RETRIEVAL - FROM CCB-REVIEW-DATE* SPONSOR ABOVE.
CCP-REVIEW-DATE	11	UP TO 11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE SCHEDULED FOR THE CONFIGURATION CONTROL PANEL (CCP). NO STORE RETRIEVAL - FROM CCP-REVIEW-DATE*SPONSOR ABOVE.
CCP-SPONSOR	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE NAME OF THE CCP SPONSOR. NO STORE RETRIEVAL - FROM CCP-REVIEW-DATE* SPONSOR ABOVE.
TD-NO	12	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE TECHNICAL DIRECTION (TD) NUMBER. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
TD-DT	6	6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
CCA-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.
CCA-DT	6	6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

RECP-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
RECP-FILE	10	RECORD ID, 10 DIGIT ALPHA-NUMERIC REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) NUMBER.
RECP-TITLE	54	UP TO 54 DIGIT ALPHA-NUMERIC REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) TITLE.
REL-PCIN	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED PCIN.
RECP-DATE	11	11 DIGIT ALPHA-NUMERIC PRESENTING DATE RECP WAS INITIATED.
INITIATOR	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) INITIATOR.
CONTRACTOR	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING NAME OF RESPONSIBLE CONTRACTOR.
REL-ECP	9	UP TO 9 DIGIT ALPHA-NUMERIC PRESENTING THE ENGINEERING CHANGE PROPOSAL (ECP) RELATED TO THE RECORD ID.
AFF-PROJ	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING PROJECTS AFFECTED BY THE CHANGE; E.G., ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (SRB), OR LAUNCH AND LANDING (L/L).
RECP-STATUS*DATE	18*8	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE STATUS OF THE RECP AND 8 DIGIT NUMERIC DATE OF STATUS BY YEAR-MONTH-DAY.
TD*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER AND 6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY. NO DIRECT INPUT - DATA AUTOMATICALLY JOINT STORED FROM ANOTHER FILE ENTRY.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

RECP-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
REL-RECP	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING ANY REQUESTS FOR ENGINEERING CHANGE PROPOSAL (RECP) RELATED TO THE RECORD ID.
ACTION	12*7*20*6*10	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE; UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING ACTIONEE'S ORGANIZATION; UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION REQUIRED; 6 DIGIT NUMERIC PRESENTING DATE ACTION REQUIRED BY YEAR-MONTH-DAY; UP TO 10 DIGIT ALPHA-NUMERIC ACTION ITEM TRACKING NUMBER REFLECTING MONTH, DAY, AND SEQUENCE NUMBER.
KEYWORDS	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING DESCRIPTIVE KEYWORD(S).
CORRESPONDENCE	75	UP TO 75 DIGIT ALPHA-NUMERIC PRESENTING LETTER(S) OF TRANSMITTAL, MEMO(S), MESSAGE(S), ETC. RELATING TO RECORD ID.
CEI-NAME/NUMBER	30	UP TO 30 DIGIT ALPHA-NUMERIC PRESENTING THE CRITICAL END ITEM NAME AND NUMBER.
CEI-EFF	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE CRITICAL END ITEM (CEI) EFFECTIVITY.
RECP-DISP*AUTHORITY	18*18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE DISPOSITION OF THE REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) AND UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE APPROVAL/DISAPPROVAL AUTHORITY.
SHORT-TITLE	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ABBREVIATED TITLE OF CHANGE FOR 80 CHARACTER TERMINAL REPORT FORMAT.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

RECP-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
CCA*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER AND 6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY. NO DIRECT INPUT DATA, DATA IS AUTOMATICALLY JOINT STORED FROM ANOTHER FILE ENTRY.
RECP-STATUS	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE STATUS OF THE REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP). NO STORE RETRIEVAL - FROM RECP-STATUS*DATE ABOVE.
STA-DT	8	8 DIGIT NUMERIC DATE OF REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) STATUS. NO STORE RETRIEVAL - FROM RECP-STATUS*DATE ABOVE.
NAME	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE RECP ACTIONEE NAME. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ORG	7	UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING THE RECP ACTIONEE ORGANIZATION. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ACT-REQ	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ACTION REQUIRED. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ACT-DATE	6	6 DIGIT NUMERIC PRESENTING THE DATE ACTION WAS ASSIGNED. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ITEM-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION ITEM TRACKING NUMBER. NO STORE RETRIEVAL - FROM ACTION ABOVE.
RECP-DISP	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE DISPOSITION OF THE RECP. NO STORE RETREIVAL - FROM RECP-DISP*AUTHORITY ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

RECP-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
AUTHORITY	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE APPROVAL/ DISAPPROVAL AUTHORITY. NO STORE RETRIEVAL - FROM RECP-DISP*AUTHORITY ABOVE.
TD-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE TECHNICAL DIRECTION (TD) NUMBER. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
TD-DT	6	6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
CCA-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER. NO STORE RETRIEVAL - CCA*DATE ABOVE.
CCA-DT	6	6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ECP-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
ECP-FILE	9	RECORD ID, 10 DIGIT ALPHA-NUMERIC ENGINEERING CHANGE PROPOSAL (ECP) NUMBER.
ECP-TITLE	54	UP TO 54 DIGIT ALPHA-NUMERIC ENGINEERING CHANGE PROPOSAL (ECP) TITLE.
REL-PCIN	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED PCIN.
ECP-DATE	11	11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE ECP WAS INITIATED BY YEAR-MONTH-DAY.
CONTRACTOR	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING NAME OF RESPONSIBLE CONTRACTOR.
REL-RECP	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) RELATED TO THE RECORD ID.
AFF-PROJ	18	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING PROJECTS AFFECTED BY THE CHANGE; E.G., ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (SRB), OR LAUNCH AND LANDING (L/L).
ECP-STATUS*DATE	18*8	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE STATUS OF THE ENGINEERING CHANGE PROPOSAL (ECP) AND 8 DIGIT NUMERIC DATE OF STATUS BY YEAR-MONTH-DAY.
CHANGE-IMPACT	24	UP TO 24 DIGIT ALPHA-NUMERIC PRESENTING THE IMPACT ON SAFETY, MAINTAINABILITY, RELIABILITY, GSE, SIMULATORS AND TRAINERS, PERFORMANCE, PRODUCIBILITY, BALANCE AND STABILITY, SPARES, FACILITIES, FLIGHT OPERATIONS, SOFTWARE, AND PAY-LOADS.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ECP-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
COST/FLT-IMPACT	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE DOLLAR COST A CHANGE IMPOSES. JOINT-STORE POSITIVE POST TO PCIN-FILE.
TD*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER AND 6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY. NO DIRECT INPUT - DATA IS AUTOMATICALLY JOINT STORED FROM ANOTHER FILE ENTRY.
CCA*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER AND 6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY. NO DIRECT INPUT - DATA IS AUTOMATICALLY JOINT STORED FROM ANOTHER FILE ENTRY.
REL-DOC	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING RELATED DOCUMENTATION.
CEI-NAME/NUMBER	30	UP TO 30 DIGIT ALPHA-NUMERIC PRESENTING THE CRITICAL END ITEM NAME AND NUMBER.
CEI-EFF	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE CRITICAL END ITEM (CEI) EFFECTIVITY.
DDD	8	8 DIGIT NUMERIC PRESENTING THE DROP DEAD DATE (DDD); THE FINAL DATE A CHANGE CAN BE MADE.
REL-ECP	9	UP TO 9 DIGIT ALPHA-NUMERIC PRESENTING THE ENGINEERING CHANGE PROPOSAL (ECP) RELATED TO THE RECORD ID.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ECP-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
ACTION	12*7*20*6*10	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE: UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING ACTIONEE'S ORGANIZATION; UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION REQUIRED; 6 DIGIT NUMERIC PRESENTING DATE ACTION REQUIRED BY YEAR-MONTH-DAY; UP TO 10 DIGIT ALPHA-NUMERIC ACTION ITEM TRACKING NUMBER REFLECTING MONTH, DAY, AND SEQUENCE NUMBER.
KEYWORDS	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING DESCRIPTIVE KEYWORD(S).
CORRESPONDENCE	75	UP TO 75 DIGIT ALPHA-NUMERIC PRESENTING LETTER(S) OF TRANSMITTAL, MEMO(S), MESSAGE(S), ETC. RELATING TO RECORD ID.
WEIGHT/VEH-IMPACT	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING WEIGHT IN POUNDS THAT A CHANGE IMPOSES. NO STORE RETRIEVAL - POSITIVE POST FROM ANOTHER FILE ENTRY.
SHORT-TITLE	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ABBREVIATED TITLE OF CHANGE FOR 80 CHARACTER TERMINAL REPORT FORMAT.
ECP-STATUS	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING STATUS OF ENGINEERING CHANGE PROPOSAL (ECP). NO STORE RETRIEVAL - FROM ECP-STATUS*DATE ABOVE.
STA-DT	8	8 DIGIT NUMERIC DATE OF ENGINEERING CHANGE PROPOSAL (ECP) STATUS. NO STORE RETRIEVAL - FROM ECP-STATUS*DATE ABOVE.
NAME	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ENGINEERING CHANGE PROPOSAL (ECP) ACTIONEE NAME. NO STORE RETRIEVAL - FROM ACTION ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ECP-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
ORG	7	UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING THE ENGINEERING CHANGE PROPOSAL (ECP) ACTIONEE ORGANIZATION. NO STORE RETRIEVAL, FROM ACTION ABOVE.
ACT-REQ	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ACTION REQUIRED. NO STORE RETRIEVAL - FROM ACTION ABOVE.
ITEM-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION ITEM TRACKING NUMBER. NO STORE RETRIEVAL - FROM ACTION ABOVE.
TD-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE TECHNICAL DIRECTION (TD) NUMBER. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
TD-DT	6	6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
CCA-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.
CCA-DT	6	6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ICD/IRN-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
ICD/IRN-FILE	18	RECORD ID, 18 DIGIT ALPHA-NUMERIC INTERFACE CONTROL DOCUMENT (ICD) OR INTERFACE REVISION NOTICE (IRN)
ICD/IRN-TITLE	54	UP TO 54 DIGIT ALPHA-NUMERIC INTERFACE CONTROL DOCUMENT (ICD) OR INTERFACE REVISION NOTICE (IRN) TITLE
ICD/IRN-DATE	11	11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE THE INTERFACE CONTROL DOCUMENT (ICD) OR INTERFACE REVISION NOTICE (IRN) WAS INITIATED.
AFF-ICD	12	UP TO 12 DIGIT ALPHA-NUMERIC IDENTIFYING ASSOCIATED INTERFACE CONTROL DOCUMENT(S) (ICD) AFFECTED BY THE CHANGE.
ICD/IRN-SUSP*DATE	12*8	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING INTERFACE CONTROL DOCUMENT (ICD) OR INTERFACE REVISION NOTICE (IRN) SUSPENSE AND 8 DIGIT NUMERIC DATE OF ICD OR IRN SUSPENSE.
AFF-PROJ	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING PROJECTS AFFECTED BY THE CHANGE; E.G., ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (ARB), OR LAUNCH AND LANDING (L/L).
REL-DOC	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING RELATED DOCUMENTS TO ICD OR IRN.
REL-PCIN	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED PCIN.
CEI-EFF	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE CONTRACT END ITEM (CEI) EFFECTIVITY.

ASTERISK DEFINITION (*) - CONCATENTATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ICD/IRN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
COST/FLT-IMPACT	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE DOLLAR COST A CHANGE IMPOSES. JOINT-STORE POSITIVE POST TO PCIN-FILE.
STATUS-LIST	12*4*12*24	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING INTERFACE CONTROL DOCUMENT (ICD)/INTERFACE REVISION NOTICE (IRN) NUMBERS; UP TO 4 DIGIT ALPHA-NUMERIC ICD/IRN EFFECTIVITY; UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING APPLICABLE DESIGN/CONTRACTORS; UP TO 24 DIGIT ALPHA-NUMERIC PRESENTING RELATED ACTIONS TO THE STATUS REPORT.
STATUS-DATE	11	11 DIGIT ALPHA-NUMERIC DATE OF THE SPACE SHUTTLE INTEGRATED PROGRAM INTERFACE CONTROL DOCUMENT (ICD)/INTERFACE REVISION NOTICE (IRN) STATUS LIST.
ICD-REV*DATE	12*8	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE INTERFACE CONTROL DOCUMENT (ICD) REVISION NUMBER AND 8 DIGIT NUMERIC DATE OF REVISION.
SHORT-TITLE	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ABBREVIATED TITLE OF CHANGE FOR 80 CHARACTER TERMINAL REPORT FORMAT.
TD-DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER AND 6 DIGIT NUMERIC DATE OF TD.
CCA*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER AND 6 DIGIT NUMERIC DATE OF CCA.
ICD/IRN-SUSP	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE INTERFACE CONTROL DOCUMENT (ICD) OR INTERFACE REVISION SUSPENSE. NO STORE RETRIEVAL, FROM ICD/IRN-SUSP*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ICD/IRN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
SUSP-DATE	8	8 DIGIT ALPHA-NUMERIC DATE OF ICD OR IRN SUSPENSE. NO STORE RETRIEVAL, FROM ICD/IRN-SUSP* DATE ABOVE.
TD-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER. NO STORE RETRIEVAL, FROM TD*DATE ABOVE.
TD-DT	6	6 DIGIT NUMERIC DATE OF TECHNICAL DIRECTION (TD) BY YEAR-MONTH-DAY. NO STORE RETRIEVAL, FROM TD*DATE ABOVE.
CCA-NO.	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER. NO STORE RETRIEVAL, FROM CCA*DATE ABOVE.
CCA-DT	6	6 DIGIT NUMERIC DATE OF CONTRACT CHANGE AUTHORIZATION (CCA) BY YEAR-MONTH-DAY. NO STORE RETRIEVAL, FROM CCA*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

SPEC/SCN-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
SPEC/SCN-FILE	20	RECORD ID, 20 DIGIT ALPHA-NUMERIC SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN) NUMBER.
SPEC/SCN-TITLE	54	UP TO 54 DIGIT ALPHA-NUMERIC SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN) TITLE.
SPEC/SCN-DATE	11	11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE THE SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN) WAS INITIATED.
AFF-SPECS	18	UP TO 18 DIGIT ALPHA-NUMERIC IDENTIFYING THE SPECIFICATIONS AFFECTED BY THE CHANGE.
SPEC/SCN-SUSP*DATE	12*8	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN) SUSPENSE AND 8 DIGIT ALPHA-NUMERIC DATE OF SPEC OR SCN SUSPENSE.
REL-DOC	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING RELATED DOCUMENTS TO SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN).
AFF-PROJ	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING PROJECTS AFFECTED BY THE CHANGE, E.G., ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (SRB), OR LAUNCH AND LANDING (L/L).
REL-PCIN	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED PCIN.
CEI-EFF	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE CONTRACT END ITEM (CEI) EFFECTIVITY.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

SPEC/SCN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
COST/FLT-IMPACT	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE DOLLAR COST A CHANGE IMPOSES. JOINT-STORE POSITIVE POST TO PCIN-FILE.
SPEC/SCN-REV*DATE	12*8	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN) REVISION NUMBER AND 8 DIGIT ALPHA-NUMERIC DATE OF REVISION.
SHORT-TITLE	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ABBREVIATED TITLE OF CHANGE FOR 80 CHARACTER TERMINAL REPORT FORMAT.
TD*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER AND 6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY.
CCA*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER AND 6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY.
SPEC/SCN-SUSP	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN) SUSPENSE. NO STORE RETRIEVAL - FROM SPEC/SCN-SUSP*DATE ABOVE.
SUSP-DATE	8	8 DIGIT ALPHA-NUMERIC DATE OF SPECIFICATION (SPEC) OR SPECIFICATION CHANGE NOTICE (SCN) SUSPENSE.
TD-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

SPEC/SCN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
TD-DT	6	6 DIGIT NUMERIC DATE OF TECHNICAL DIRECTION (TD) BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
CCA-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.
CCA-DT	6	6 DIGIT NUMERIC DATE OF CONTRACT CHANGE AUTHORIZATION (CCA) BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

DCN-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
DCN-FILE	12	RECORD ID, 12 DIGIT ALPHA-NUMERIC DOCUMENT CHANGE NOTIFICATION (DCN) NUMBER.
DCN-TITLE	54	UP TO 54 DIGIT ALPHA-NUMERIC DOCUMENT CHANGE NOTIFICATION (DCN) TITLE.
DCN-DATE	11	11 DIGIT ALPHA-NUMERIC DATE THE DCN WAS INITIATED.
AFF-DOC	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING DOCUMENT AFFECTED BY CHANGE.
DCN-SUS*DATE	12*8	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING DOCUMENT CHANGE SUSPENSE AND 8 DIGIT NUMERIC PRESENTING DOCUMENT CHANGE DATE.
AFF-PROJ	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING PROJECTS AFFECTED BY THE CHANGE, E.G., ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (SRB), OR LAUNCH AND LANDING (L/L).
REL-DOC	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING RELATED DOCUMENTATION.
REL-PCIN	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED PCIN.
CEI-EFF	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE CRITICAL END ITEM (CEI) EFFECTIVITY.
COST/FLT-IMPACT	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING DOLLAR COST A CHANGE IMPOSES. JOINT-STORE POSITIVE POST TO PCIN-FILE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

DCN-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
SHORT-TITLE	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ABBREVIATED TITLE OF CHANGE FOR 80 CHARACTER TERMINAL REPORT FORMAT.
TD*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER AND 6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY.
CCA*DATE	10*6	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER AND 6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY.
DCN-SUSP	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING DOCUMENT CHANGE SUSPENSE. NO STORE RETRIEVAL - FROM DCN-SUS*DATE ABOVE.
SUSP-DATE	8	8 DIGIT ALPHA-NUMERIC DATE OF DOCUMENT CHANGE SUSPENSE. NO STORE RETRIEVAL - FROM DCN-SUS*DATE ABOVE.
TD-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING TECHNICAL DIRECTION (TD) NUMBER. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
TD-DT	6	6 DIGIT NUMERIC DATE OF TD BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM TD*DATE ABOVE.
CCA-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING CONTRACT CHANGE AUTHORIZATION (CCA) NUMBER. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.
CCA-DT	6	6 DIGIT NUMERIC DATE OF CCA BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM CCA*DATE ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ACTION-ITEM-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
ACTION-ITEM-FILE	12*7*20*6*10	RECORD ID, UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE; UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING ACTIONEE'S ORGANIZATION; UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION REQUIRED; 6 DIGIT NUMERIC PRESENTING DATE ACTION REQUIRED BY YEAR-MONTH-DAY; UP TO 10 DIGIT ALPHA-NUMERIC ACTION ITEM REFLECTING MONTH, DAY, AND SEQUENCE NUMBER.
KEYWORDS	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING DESCRIPTIVE KEYWORD(S).
DESCRIPTION	76	UP TO 76 DIGIT ALPHA-NUMERIC DESCRIPTION OF THE ACTION-ITEM.
ACTION-A*DUE-DT	20*6	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE FIRST OF 10 SEQUENTIAL SUBACTIONS; 6 DIGIT NUMERIC DATE OF SUBACTION.
STATUS-A*DATE	8*6	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE FIRST OF 10 SEQUENTIAL SUBACTION STATUS; 6 DIGIT NUMERIC DATE OF SUB-ACTION STATUS.
ACTION-B*DUE-DT	20*6	ACTION-B*DUE-DT THROUGH ACTION-J*DUE-DT SAME AS ACTION-A* DUE-DT.
STATUS-B*DATE	8*6	STATUS B*DATE THROUGH STATUS-J*DATE SAME AS STATUS-A*DATE.
ACTION-C*DUE-DT	20*6	
STATUS-C*DATE	8*6	
ACTION-D*DUE-DT	20*6	

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ACTION-ITEM-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
ACTION-D*DUE-DT	20*11	
STATUS-D*DATE	8*11	
ACTION-E*DUE-DT	20*11	
STATUS-E*DATE	8*11	
ACTION-F*DUE-DT	20*11	
STATUS-F*DATE	8*11	
ACTION-G*DUE-DT	20*11	
STATUS-G*DATE	8*11	
ACTION-H*DUE-DATE	20*11	
STATUS-H*DATE	8*11	
ACTION-I*DUE-DT	20*11	
STATUS-I*DATE	8*11	
ACTION-J*DUE-DT	20*11	
STATUS-J*DATE	8*11	
PCIN-NO	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED PCIN.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUF) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

ACTION-ITEM-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
CORRESPONDENCE	75	UP TO 75 DIGIT ALPHA-NUMERIC PRESENTING LETTER(S) OF TRANSMITTAL, MEMO(S), MESSAGE(S), ETC., RELATING TO RECORD ID.
RECP-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) NUMBER.
ECP-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED ENGINEERING CHANGE PROPOSAL (ECP) NUMBER.
RID*NO*ACTIVITY	2*9*3-3-4	2 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED REVIEW ITEM DISCREPANCY (RID) NUMBER; UP TO 9 DIGIT ALPHA-NUMERIC PRESENTING THE TEAM-SEQUENCE NUMBER; 3 DIGIT ALPHA-NUMERIC PRESENTING THE REVIEW BOARD: PRELIMINARY DESIGN REVIEW (PDR), CRITICAL DESIGN REVIEW (CDR), TECHNICAL DESIGN REVIEW (TDR), ETC.; 3 DIGIT ALPHA-NUMERIC IDENTIFYING THE PROJECT AFFECTED: ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (SRB), OR LAUNCH AND LANDING (L/L); 4 DIGIT ALPHA-NUMERIC PRESENTING THE RID EFFECTIVITY NUMBER.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

RID-FILE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
RID*NO*ACTIVITY	2*9*3-3-4	RECORD ID, 2 DIGIT ALPHA-NUMERIC PRESENTING THE REVIEW ITEM DISCREPANCY (RID) NUMBER; UP TO 9 DIGIT ALPHA-NUMERIC PRESENTING THE TEAM-SEQUENCE NUMBER; 3 DIGIT ALPHA-NUMERIC PRESENTING THE REVIEW BOARD: PRELIMINARY DESIGN REVIEW (PDR), CRITICAL DESIGN REVIEW (CDR), TECHNICAL DESIGN REVIEW (TDR), ETC.; 3 DIGIT ALPHA-NUMERIC IDENTIFYING THE PROJECT AFFECTED: ORBITER (ORB), MAIN ENGINE (ME), EXTERNAL TANK (ET), SOLID ROCKET BOOSTER (SRB), OR LAUNCH AND LANDING (L/L); UP TO 4 DIGIT ALPHA-NUMERIC PRESENTING THE RID EFFECTIVITY NUMBER.
TITLE	50	UP TO 50 DIGIT ALPHA-NUMERIC PRESENTING THE REVIEW ITEM DISCREPANCY (RID) TITLE.
DATE	11	11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE THE REVIEW ITEM DISCREPANCY (RID) WAS INITIATED.
INITIATOR	15	UP TO 15 DIGIT ALPHA-NUMERIC IDENTIFYING THE ORIGIN OF THE INITIATOR.
ORG	7	UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE ORGANIZATION.
DISPOSITION	1	1 DIGIT ALPHA-NUMERIC PRESENTING THE DISPOSITION OF THE REVIEW ITEM DISCREPANCY (RID).
CATEGORY	1	1 DIGIT ALPHA-NUMERIC PRESENTING THE CATEGORY OF THE REVIEW ITEM DISCREPANCY (RID).

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATE ELEMENT DEFINITION

RID-FILE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
DOC*PARA	3*15	3 DIGIT ALPHA-NUMERIC PRESENTING DOCUMENTS AFFECTED BY THE REVIEW ITEM DISCREPANCY (RID) AND UP TO 15 DIGIT ALPHA-NUMERIC PRESENTING THE DOCUMENT PARAGRAPH AFFECTED.
HARDWARE	20	UP TO 20 DIGIT ALPHA-NUMERIC IDENTIFYING HARDWARE AFFECTED BY THE REVIEW ITEM DISCREPANCY (RID).
DRAWING	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING DRAWINGS AFFECTED BY THE REVIEW ITEM DISCREPANCY (RID).
ACTION	12*7*20*11*10	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE; UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING ACTIONEE'S ORGANIZATION; UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION REQUIRED; 11 DIGIT ALPHA-NUMERIC PRESENTING DATE ACTION IS REQUIRED BY YEAR-MONTH-DAY; UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING AN ACTION ITEM TRACKING NUMBER REFLECTING MONTH, DAY, AND SEQUENCE NUMBER.
STATUS*DATE	8*6	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE REVIEW ITEM DISCREPANCY (RID) STATUS AND 6 DIGIT NUMERIC DATE OF RID STATUS BY YEAR-MONTH-DAY.
REMARKS	500	UP TO 500 DIGIT ALPHA-NUMERIC PRESENTING ADDITIONAL COMMENTS CONCERNING THE REVIEW ITEM DISCREPANCY (RID).
EFFECTIVITY	18	UP TO 18 DIGIT ALPHA-NUMERIC PRESENTING THE VEHICLE NUMBER OR SYSTEM EFFECTIVITY.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

CORRESPONDENCE

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
CORRESPONDENCE-FILE	75	RECORD ID, 75 DIGIT ALPHA-NUMERIC CORRESPONDENCE NUMBER.
RECEIPT-DATE	11	11 DIGIT ALPHA-NUMERIC DATE OF CORRESPONDENCE RECEIPT.
DOCUMENT-ID	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE CORRESPONDENCE IDENTIFICATION NUMBER.
DOCUMENT-DATE.	11	11 DIGIT ALPHA-NUMERIC DATE OF CORRESPONDENCE.
ORIGINATOR	10	UP TO 10 DIGIT ALPHA-NUMERIC IDENTIFYING THE CORRESPONDENCE ORIGINATOR.
DOCUMENT-TYPE	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE TYPE OF CORRESPONDENCE, E.G., SPECS, REVISION NOTICES.
SUBJECT	70	UP TO 70 DIGIT ALPHA-NUMERIC PRESENTING THE SUBJECT OF THE CORRESPONDENCE.
ADDRESSEE	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ADDRESSEE OF THE CORRESPONDENCE.
REFERENCE-DOCUMENTS	20	UP TO 20 DIGIT ALPHA-NUMERIC IDENTIFYING DOCUMENTS (IF ANY) REFERENCED IN THE CORRESPONDENCE.
FILE-LOCATION	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING THE FILE LOCATION OF THE CORRESPONDENCE.
SEC-CLASS	15	UP TO 15 DIGIT ALPHA-NUMERIC PRESENTING THE SECURITY CLASSIFICATION OF THE CORRESPONDENCE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

CORRESPONDENCE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
ACTION-ITEMS	12*7*20*6*10	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE; UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING ACTIONEE'S ORGANIZATION; UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING ACTION REQUIRED; 6 DIGIT NUMERIC PRESENTING DATE ACTION REQUIRED BY YEAR-MONTH-DAY; UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING ACTION ITEM TRACKING NUMBER REFLECTING MONTH, DAY, AND SEQUENCE NUMBER.
KEYWORDS	20	UP TO 20 DIGIT ALPHA-NUMERIC PRESENTING DESCRIPTIVE KEYWORD(S).
ABSTRACT	500	UP TO 500 DIGIT ALPHA-NUMERIC PRESENTING A SUMMARY OF THE CORRESPONDENCE CONTENT.
PCIN-NO	8	UP TO 8 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED PCIN.
PO-RECEIPT-DATE	11	11 DIGIT ALPHA-NUMERIC PRESENTING THE PROGRAM OFFICE RECEIPT DATA OF THE CORRESPONDENCE.
NO-ENCL	2	UP TO 2 DIGIT ALPHA-NUMERIC PRESENTING THE NUMBER OF CORRESPONDENCE ENCLOSURES.
ENCL-TITLES	75	UP TO 75 DIGIT ALPHA-NUMERIC PRESENTING THE ENCLOSURE TITLES.
CONTRACT-NO	12	UP TO 12 DIGIT ALPHA-NUMERIC IDENTIFYING THE CONTRACT NUMBER ASSOCIATED WITH THE CORRESPONDENCE.
DOWNGRADE	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE SECURITY CLASSIFICATION CHANGE OF THE CORRESPONDENCE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

Table 3.2-1. DATA BASE DATA ELEMENT DEFINITION

CORRESPONDENCE (CONTINUED)

DATA ELEMENT	CHARACTER LENGTH	DATA DESCRIPTION
RECISION-DATE	11	UP TO 11 DIGIT ALPHA-NUMERIC PRESENTING THE DATE OF SECURITY RECISION.
RECP-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED REQUEST FOR ENGINEERING CHANGE PROPOSAL (RECP) NUMBER.
ECP-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ASSOCIATED ENGINEERING CHANGE PROPOSAL (ECP) NUMBER.
NAME	12	UP TO 12 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE NAME. NO STORE RETRIEVAL - FROM ACTION-ITEMS ABOVE.
ORG	7	UP TO 7 DIGIT ALPHA-NUMERIC PRESENTING THE ACTIONEE ORGANIZATION. NO STORE RETRIEVAL - FROM ACTION-ITEMS ABOVE.
ACT-REQ	20	UP TO 20 DIGIT ALPHA-NUMERIC IDENTIFYING THE ACTION REQUIRED. NO STORE RETRIEVAL - FROM ACTION-ITEMS ABOVE.
ACT-DATE	6	6 DIGIT NUMERIC DATE OF ACTION ASSIGNED BY YEAR-MONTH-DAY. NO STORE RETRIEVAL - FROM ACTION-ITEMS ABOVE.
ITEM-NO	10	UP TO 10 DIGIT ALPHA-NUMERIC PRESENTING THE ACTION ITEM TRACKING NUMBER REFLECTING THE MONTH, DAY, AND SEQUENCE NUMBER. NO STORE RETRIEVAL - FROM ACTION-ITEMS ABOVE.

ASTERISK DEFINITION (*) - CONCATENATION (GIM UNIQUE) LINKS ELEMENTS TOGETHER

title, related PCIN(s), related ECP(s), projects affected, status of the RECP, and the date of the RECP status. The as of date will be the day-month-year that the report will be generated.

ECP-REPORT as of date

Page No. 001

ECP-NO ECP-DATE ECP-TITLE REL-PCIN REL-RECP CCA CCA-DATE TD TD-DATE

The ECP-REPORT will provide the change documentation for the ECP number, ECP date, ECP title, related PCIN(s), related RECP(s), contract change authorization, the date of the contract change authorization, technical direction, and the date of the technical direction. The primary sort is ECP number and the as of date will be the day-month-year that the report will be generated.

OPEN-ACTION-ITEM-REPORT as of date

Page No. 001

PCIN-NO ITEM-NO ACT-REQ ACT-DATE ACTIONEE ORG

The OPEN-ACTION-ITEM-REPORT will provide those actions open with PCIN number, action item tracking number, action required, action due date, the individual the action is assigned to, and the organization of the individual. The primary sort is on action due date. Secondary sorts are PCIN number, Item number, organization, and actionee. The as of date will be the day-month-year that the report will be generated.

PRCB-AGENDA as of date

Page No. 001

PCIN-NO PRCB-REVIEW-DATE PCIN-TITLE RECP ECP SPONSOR

The PRCB-Agenda will provide the automatic report of the next PRCB agenda items. Presented will be the PCIN number, PRCB review date, PCIN title, RECP, ECP, and the name of the

sponsor for the change. The primary sort will be on PCIN number. Secondary sorts will be on RECP number, ECP number, and sponsor. The as of date will be the day-month-year that the report will be generated.

CCB-AGENDA as of date

Page No. 001

The CCB-AGENDA will present the same information as the PRCB-AGENDA except that CCB review date will be reflected.

It is expected that approximately 40 to 50 different types of report formats will be required for this application. Report formatting is a feature of the GIM and can be accomplished on-line. This feature does not require additional storage because the system creates a utility file to provide the report and deletes the utility file when the user signs off.

3.4 CAS Conditional Queries. This application must be capable of limiting the amount of data output for both demand (on-line) and batch (off-line) queries. The amount of change data that is expected in the Space Shuttle Program and the dynamic operation dictates that a method must be provided to allow the user to condition his question so that the output response provides only the information requested. The GIM provides this capability through conditional queries. Some examples of conditional queries are as follows:

Query: 001 * >COUNT DICT PCIN-FILE WITH V/CONV "D" #

Computer Response: NUMBER OF ACCEPTABLE ITEMS = 4

Query: 002 * >LIST DICT PCIN-FILE WITH V/CONV "D" #

Computer Response:

```
PCIN-FILE : 4
DICT/CODE : S
DL/BASE : 4
DL/MODULO : DISP-DATE
DL/SEPARATION : 4
DL/CONVERSION : D
DL/CORRELATIVES : Y111 : D2;3
DL/TYPE : L
DL/MAX : 11

PCIN-FILE : PCIN-DATE
DICT/CODE : A
DL/BASE : 2
DL/CONVERSION : D
DL/CORRELATIVES : Y111
DL/TYPE : L
DL/MAX : 11
```

Note: There are three more PCIN's to be listed as shown in the previous query.

Query:

```
003 * LIST ONLY EACH PCIN-FILE WITH PCIN-DISP "CLOSEDA"#
```

Computer Response:

```
PCIN-FILE
00589
00180
00185
00168
00574
00115
```

Query:

```
004 * >LIST PCIN-FILE WITH PCIN-DISP "CLOSEDA" #
```

Computer Response:

```
PCIN-FILE : 00589
PCIN-TITLE*INIT : STANDARD INSTRUMENTATION CALIBRATION
DATA*WT6/DEMOSS
PCIN-DATE : 23 OCT 1973
PCIN-DISP : CLOSEDA
  DISP-DATE : 30 NOV 1973
REL-RECP : 00589
REL-SPEC/SCN : MJ070-0001-1
AFF-PROJ : ORBITER
CHANGE-IMPACT : MAINTAINABILITY : SPARES
LEVEL : III
ACTION : JEFFS*RI*ADD SENSING TO CEI*731130*73113003
CCB-REVIEW-DATE*SPONSOR : 731121*FOSTER
  CCB-DISP : APPROVED
CORRESPONDENCE : MC674
KEYWORDS : INSTRUMENTATION : CALIBRATION
SHORT-TITLE : STD INSTR CAL DATA
TD*DATE : MC-614*731130
```

PCIN-FILE : 00180
PCIN-TITLE*INIT : IRD DOCUMENTATION CHANGES*COHEN
PCIN-DATE : 17 JAN 1974
PCIN-DISP : CLOSEDA
  DISP-DATE : 28 JAN 1974
REL-RECP : 00180
REL-DCN : 60 : 61 : 67 : 68
AFF-PROJ : ORBITER
LEVEL : III
ACTION : JSC*BC4*ISSUE DIREC TO RI*740206*74020601
CCB-REVIEW-DATE*SPONSOR : 740122*COHEN
  CCB-DISP : APPROVED
CORRESPONDENCE : 73MA5661 : BC412-74/25
KEYWORDS : IRD : DOCUMENTATION
SHORT-TITLE : IRD CHANGES
TD*DATE : BC42*740128
CCA*DATE : 29*UNKNWN

Note: There are four more PCIN's to be listed as shown in the previous query.

Query: 005 * >COUNT RECP-FILE #

Computer Response: NUMBER OF ACCEPTABLE ITEMS = 208

Query: 006 * >COUNT RECP-FILE WITH RECP-DATE GT "731201" #

Computer Response: NUMBER OF ACCEPTABLE ITEMS = 20

Query: 007 * >COUNT RECP-FILE WITH RECP-DATE GT "731201" AND WITH CONTRACTOR "RI" #

Computer Response: NUMBER OF ACCEPTABLE ITEMS = 17

Query: 008 * TOTAL PCIN-FILE COST/FLT-IMPACT #

Computer Response: COST/FLT-IMPACT
2000.

Query: 009 * LIST ONLY EACH PCIN-FILE WITH LEVEL "I" #

Computer Response: PCIN-FILE

00195
00196
00197
00198

APPENDIX A
ACRONYMS AND ABBREVIATIONS

ABE	AIR BREATHING ENGINE
AFF-PROJ	AFFECTED PROJECT
B:C	BRIDGE CREATE
B:V	BRIDGE VERIFY
CAS	CONFIGURATION ACCOUNTING SYSTEM
CCA	CONTRACT CHANGE AUTHORIZATION
CCB	CONFIGURATION CONTROL BOARD
CCBD	CONFIGURATION CONTROL BOARD DIRECTIVE
CCP	CONFIGURATION CONTROL PANEL
CEI	CRITICAL END ITEM
CEI-EFF	CRITICAL END ITEM EFFECTIVITY
CMO	CONFIGURATION MANAGEMENT OFFICE
CMWG	CONFIGURATION MANAGEMENT WORKING GROUP
CR	CHANGE REQUEST
CRN	CONTRACT REVISION NUMBER
DCN	DOCUMENT CHANGE NOTICE
ECP	ENGINEERING CHANGE PROPOSAL
EO	ENGINEERING ORDER
ET	EXTERNAL TANK
FDS	FUNCTIONAL DESIGN SPECIFICATION
ICD	INTERFACE CONTROL DOCUMENT/DRAWING
IRN	INTERFACE REVISION NOTICE
JS	JOINT STORE
PRCB	PROGRAM REQUIREMENTS CONTROL BOARD
PRCBD	PROGRAM REQUIREMENTS CONTROL BOARD DIRECTIVE
RECP	REQUEST FOR ENGINEERING CHANGE PROPOSAL

SSME	SPACE SHUTTLE MAIN ENGINE
SRB	SOLID ROCKET BOOSTER
L/L	LAUNCH AND LANDING